

## General

### Title

Physician-to-population ratio: total number of physicians per 100,000 population by specialty.

### Source(s)

Canadian Institute for Health Information (CIHI). Indicator metadata: physicians per 100,000 population, by specialty. [internet]. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2014 Sep [accessed 2015 Jul 13].

## Measure Domain

### Primary Measure Domain

Population Health Quality Measures: Population Structure

### Secondary Measure Domain

Does not apply to this measure

## Brief Abstract

### Description

This measure is used to assess the total number of physicians per 100,000 population by specialty.

### Rationale

Physicians play an important role in the health care system. Physicians directly influence how most health care resources are utilized. Information on physician supply and distribution will help support health decision-makers and planners to prepare for future needs.

### Evidence for Rationale

Canadian Institute for Health Information (CIHI). Indicator metadata: physicians per 100,000 population, by specialty. [internet]. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2014 Sep [accessed 2015 Jul 13].

Statistics Canada. Estimates of population (2011 Census and administrative data), by age group and sex for July 1st, Canada, provinces, territories, health regions (2013 boundaries) and peer groups, annual (number). CANSIM Table 109-5335. [internet]. [updated 2014 Jun 12]; [accessed 2014 Jun 12].

Statistics Canada. Jurisdictional and Canadian population estimates. Quarterly Demographic Estimates. Vol. 27, no. 4, October to December 2013. Catalogue no. CS91-002/27-4E-PDF.

## Primary Health Components

Physician-to-population ratio

## Denominator Description

Canada, provincial/territorial and regional population estimates from Statistics Canada

## Numerator Description

The number of active physicians (total physicians or family medicine physicians or specialist physicians) in a designated geographic area (see the related "Numerator Inclusions/Exclusions" field)

## Evidence Supporting the Measure

### Type of Evidence Supporting the Criterion of Quality for the Measure

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

### Additional Information Supporting Need for the Measure

Unspecified

### Extent of Measure Testing

Unspecified

## State of Use of the Measure

### State of Use

Current routine use

### Current Use

not defined yet

## Application of the Measure in its Current Use

## Measurement Setting

Regional, County, or City Public Health Programs

State/Provincial Public Health Programs

## Professionals Involved in Delivery of Health Services

not defined yet

## Least Aggregated Level of Services Delivery Addressed

Regional, County or City

## Statement of Acceptable Minimum Sample Size

Does not apply to this measure

## Target Population Age

Does not apply to this measure

## Target Population Gender

Does not apply to this measure

## National Framework for Public Health Quality

### Public Health Aims for Quality

Population-centered

Transparency

## National Strategy for Quality Improvement in Health Care

### National Quality Strategy Aim

Healthy People/Healthy Communities

### National Quality Strategy Priority

## Institute of Medicine (IOM) National Health Care Quality Report Categories

## IOM Care Need

Not within an IOM Care Need

## IOM Domain

Not within an IOM Domain

# Data Collection for the Measure

## Case Finding Period

April 1 to March 31

## Denominator Sampling Frame

Geographically defined

## Denominator (Index) Event or Characteristic

Geographic Location

## Denominator Time Window

not defined yet

## Denominator Inclusions/Exclusions

### Inclusions

Canada, provincial/territorial and regional population estimates from Statistics Canada

### Exclusions

Unspecified

## Exclusions/Exceptions

not defined yet

## Numerator Inclusions/Exclusions

### Inclusions

The number of active physicians (total physicians or family medicine physicians or specialist physicians) in a designated geographic area

Active physicians in clinical and non-clinical practice (for example, research and academia) who have a doctor of medicine (MD) degree and a valid mailing address

Specialist physicians, including certificants of the Royal College of Physicians and Surgeons of Canada and/or the Collège des médecins du Québec. All other physicians are counted under family medicine, including certificants of the College of Family Physicians of Canada, unless noted

otherwise.

## Exclusions

Residents, physicians in the military, and semi-retired and retired physicians  
Non-registered physicians who requested that their information not be published as of December 31 of the reference year

## Numerator Search Strategy

Fixed time period or point in time

## Data Source

National public health data

## Type of Health State

Does not apply to this measure

## Instruments Used and/or Associated with the Measure

Unspecified

## Computation of the Measure

### Measure Specifies Disaggregation

Does not apply to this measure

### Scoring

Rate/Proportion

### Interpretation of Score

Desired value is a higher score

### Allowance for Patient or Population Factors

not defined yet

### Description of Allowance for Patient or Population Factors

- Indicators are reported at the national, provincial/territorial, and regional levels.
- Unless otherwise specified, for indicators based on place of residence, data is reported based on the region of the patient's residence, not region of hospitalization. Consequently, these figures reflect the hospitalization experience of residents of the region wherever they are treated, including out of

province, as opposed to the comprehensive activity of the region's hospitals (that will also treat people from outside of the region). Hospitalizations occurring in the U.S. or abroad are not included.

- For indicators based on place of service (where the patient was treated), data is reported based on the administrative region of the facility (e.g., region of hospitalization).

## Standard of Comparison

not defined yet

## Identifying Information

### Original Title

Physicians per 100,000 population, by specialty.

### Measure Collection Name

Health Indicators ePublication 2015

### Submitter

Canadian Institute for Health Information - Nonprofit Organization

### Developer

Canadian Institute for Health Information - Nonprofit Organization

### Funding Source(s)

Canadian Government

### Composition of the Group that Developed the Measure

*Employees:* Canadian Institute for Health Information (CIHI) Health Indicators

### Financial Disclosures/Other Potential Conflicts of Interest

None

### Adaptation

This measure was not adapted from another source.

### Date of Most Current Version in NQMC

2014 Sep

## Measure Maintenance

Annually

## Date of Next Anticipated Revision

Unspecified

## Measure Status

This is the current release of the measure.

This measure updates a previous version: Canadian Institute for Health Information (CIHI). Health indicators 2013: definitions, data sources and rationale. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2013 May. 89 p.

The measure developer reaffirmed the currency of this measure in April 2016.

## Measure Availability

Source available from the [Canadian Institute for Health Information \(CIHI\) Web site](#)

For more information, contact CIHI at 4110 Yonge Street, Suite 300, Toronto, Ontario, Canada, M2P 2B7; Phone: 416-481-2002; Fax: 416-481-2950; E-mail: [hsp@cihi.ca](mailto:hsp@cihi.ca); Web site: [www.cihi.ca](http://www.cihi.ca)

## Companion Documents

The following are available:

Canadian Institute for Health Information (CIHI). Indicator library: general methodology notes - clinical indicators, March 2015. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2015 Mar. 19 p. This document is available from the [Canadian Institute for Health Information \(CIHI\) Web site](#) .

Canadian Institute for Health Information (CIHI). Canadian coding standards for version 2015 ICD-10-CA and CCI. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2015. 511 p. This document is available from the [CIHI Web site](#) .

Canadian Institute for Health Information (CIHI). Health indicators interactive tool. [internet]. Ottawa (ON): Canadian Institute for Health Information (CIHI); [accessed 2015 Jan 20]. This tool is available from the [CIHI Web site](#) .

## NQMC Status

This NQMC summary was completed by ECRI Institute on October 23, 2007. The information was verified by the measure developer on November 28, 2007.

This NQMC summary was updated by ECRI Institute on October 10, 2008. The information was verified by the measure developer on December 18, 2008.

This NQMC summary was updated by ECRI Institute on April 19, 2010. The information was verified by the measure developer on June 24, 2010.

This NQMC summary was retrofitted into the new template on May 18, 2011.

This NQMC summary was updated by ECRI Institute on March 18, 2013. The information was verified by the measure developer on May 17, 2013.

The CIHI informed NQMC that this measure was updated on October 31, 2013 and provided an updated version of the NQMC summary. This NQMC summary was reviewed and updated accordingly by ECRI Institute on February 21, 2014.

This NQMC summary was updated again by ECRI Institute on September 4, 2015. The information was verified by the measure developer on November 6, 2015.

The information was reaffirmed by the measure developer on April 29, 2016.

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Questions and inquiries may be directed to: CIHI, Health Indicators, 4110 Yonge Street, Suite 300, Toronto, Ontario, Canada, M2P 2B7; Phone: 416-481-2002; Fax: 416-481-2950.

## Production

### Source(s)

Canadian Institute for Health Information (CIHI). Indicator metadata: physicians per 100,000 population, by specialty. [internet]. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2014 Sep [accessed 2015 Jul 13].

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